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| APPLICATION 1 | NO. | FILING DATE | FIRST NAMED INVENTOR Bernard Warnakulasooriya | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-----------------------|-------------|---|---------------------|------------------|
| 10/771,811 | | 02/04/2004 | | 130-022 | 3967 |
| 34845 | 7590 | 07/25/2006 | 5/2006 EXAMINER | | |
| McGUI | NNESS & 1 | MANARAS LLP | PHAN, RAYMOND NGAN | | |
| | GOG PARK , MA 0172 | | | ART UNIT | PAPER NUMBER |
| noron, nar onzo | | | | 2111 | |
| | | | DATE MAILED: 07/25/2006 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | |
|--|---|--|--|
| | 10/771,811 | WARNAKULASOORIYA ET AL. | |
| Office Action Summary | Examiner | Art Unit | |
| | Raymond Phan | 2111 | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | |
| Status | | | |
| 1) Responsive to communication(s) filed on 13 M | ay 2006. | | |
| · | action is non-final. | | |
| 3) Since this application is in condition for allowar | nce except for formal matters, pro | secution as to the merits is | |
| closed in accordance with the practice under E | x parte Quayle, 1935 C.D. 11, 45 | 3 O.G. 213. | |
| Disposition of Claims | | | |
| 4) Claim(s) 1-7 is/are pending in the application. | | | |
| 4a) Of the above claim(s) is/are withdraw | vn from consideration. | | |
| 5) Claim(s) is/are allowed. | | | |
| 6)⊠ Claim(s) <u>1-7</u> is/are rejected. | | | |
| 7) Claim(s) is/are objected to. | | | |
| 8) Claim(s) are subject to restriction and/or | election requirement. | | |
| Application Papers | | | |
| 9) The specification is objected to by the Examine | r. | | |
| 10) The drawing(s) filed on is/are: a) acce | | Examiner. | |
| Applicant may not request that any objection to the | | | |
| Replacement drawing sheet(s) including the correcti | on is required if the drawing(s) is obj | ected to. See 37 CFR 1.121(d). | |
| 11)☐ The oath or declaration is objected to by the Ex | aminer. Note the attached Office | Action or form PTO-152. | |
| Priority under 35 U.S.C. § 119 | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: | priority under 35 U.S.C. § 119(a) | -(d) or (f). | |
| Certified copies of the priority documents | s have been received. | • | |
| Certified copies of the priority documents | s have been received in Application | on No | |
| Copies of the certified copies of the prior | • | d in this National Stage | |
| application from the International Bureau | | | |
| * See the attached detailed Office action for a list of the second secon | of the certified copies not receive | d. | |
| Attachment(s) | | | |
| 1) X Notice of References Cited (PTO-892) | 4) Interview Summary | (PTO-413) | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Da | te | |
| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date | 5) Notice of Informal P | atent Application (PTO-152) | |

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Part III DETAILED ACTION

Notice to Applicant(s)

- 1. This action is responsive to the following communications: amendment filed on May 13, 2006.
- 2. This application has been examined. Claims 1-7 are pending.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-7 are rejected under 35 U.S.C. § 103(a) as being unpatentable over White (US No. 6,260,079) in view of Gavlik (US No. 6,745,325).

In regard to claims 1, 4, White discloses an apparatus comprising a plurality of serial bus controllers 1440, 1442 (see figure 14, col. 23, lines 10-16); a serial bus 1438 coupled to the plurality of serial bus controllers 1440, 1442 (see figure 14, col. 23, lines 10-16), the serial bus for collecting environment (see figure 10, col. 15, lines 38-55) and status information (see table 5b) associated one or more devices included in the enclosure (see col. 15, lines 38-56); an arbitration mechanism for controlling access to the serial bus by the plurality of serial bus controllers (see col. 23, lines 48-67), the arbitration mechanism comprising a redundant control line 1502 (see col. 23

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line 48 through col. 24, line 11). But White does not specifically disclose wherein each of the plurality of serial bus controllers is assigned a different number n of a period td for driving the control signal after a delay t1 when seeking to take control of the serial bus. However Gavlik discloses the serial interface controller comprising each of the plurality of serial bus controllers is assigned a different number n of a period td for driving the control signal after a delay t1 when seeking to take control of the serial bus (see col. 8, line 27 through col. 9, line 35). Therefore, it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have combined the teachings of Gavlik into the teachings of White because the failure of any microcontroller does not prevent any other microcontroller from being programmed and also provide full autonomous programming of multiple microcontrollers via 2-wire interface.

In regard to claims 2, 5, White discloses a circuit 1444 in each of the serial bus controllers for monitoring the control lines to ascertain whether the serial bus in use (see figure 14, col. 23, lines 10-19).

In regard to claims 3, 6-7, Gavlik discloses a circuit in each of the serial bus controllers for driving the control lines for a predetermined period of time if the serial bus is not in use, and for then releasing the control lines and monitoring the control lines to ascertain whether the control line are being driven by the another controller (see col. 8, line 27 through col. 9, line 35). Therefore, it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have combined the teachings of Gavlik into the teachings of White because the failure of any microcontroller does not prevent any other microcontroller from being

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programmed and also provide full autonomous programming of multiple microcontrollers via 2-wire interface.

Response to Arguments

6. In view of amendment and remark filed on May 13, 2006, claims 1-7 have been fully considered but they are not deemed to be persuasive.

Applicant(s) argue that ... White fails to teach or suggest structure of power monitoring and temperature sensing... (page 5). The Examiner does not agree. White teaches the serial bus for collecting environment (see figure 10, col. 15, lines 38-55) and status information (see table 5b) associated one or more devices included in the enclosure (see col. 15, lines 38-56). Beside the claim language does not state/claim the structure of collecting environmental and status information.

Conclusion

- 7. All claims are rejected.
- 8. The prior arts made of record and not relied upon are considered pertinent to applicant's disclosure.

Anderson et al. (US No. 6,898,184) disclose private arbitrated loop self-test management for fibre channel storage enclosure.

Price (US No. 7,036,033) discloses a disk enclosure with multiplexers for connecting I2C buses in multiple power domains.

Reid et al. (US Pub No. 2004/0190545) disclose a soft addressing for disk drive enclosures.

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE**

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FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for response to this final action is set to expire THREE MONTHS from the date of this action. In the event a first response is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for response expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Raymond Phan, whose telephone number is (571) 272-3630. The examiner can normally be reached on Monday-Friday from 6:30AM- 4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (571) 272-3632 or via e-mail addressed to mark.rinehart@uspto.gov. The fax phone number for this Group is (571) 273-8300.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [raymond.phan@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see hop://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 central telephone number is (571) 272-2100.

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WARK H. RINEHART
SUPERVISORY PATENT EXAMINED
TECHNOLOGY CENTER 2100

Raymond Phan July 17, 2006